PROJECT DESCRIPTION EQUIPMENT LISTS (CON'T.) I. GENERAL A. EQUIPMENT TO BE SUPPLIED BY S.H.A. (CON'T.). This project involves the installation of one (1) new traffic control signal and the reconstruction of two (2) existing Traffic Control Signals with street QUANTITY DESCRIPTION lighting along US 50 in Worcester County. 27' steel pole with a 40' mast arm. (Note: 4 anchor bolts US 50 and MD 707 (new signal) will be $1^{3}/4^{4} \times 90^{4}$. - US 50 and Golf Course Road (reconstruction) - US 50 and MD 611 (reconstruction) 974024 27' steel pole with a 50' mast arm. (Note: 4 anchor - US 50 and Keyser Rd. (install sampling loop, rewiring master) bolts will be $13/4'' \times 90''$.) Interconnect cable shall be installed underground from MD 707 east to 974029 27' steel pole with a 60' mast arm. (Note: 4 anchor Shantytown Road. US 50 is assumed to run in an east-west direction. bolts will be 1^{3} /4" x 90",) II. INTERSECTION OPERATION 900000 27' steel pole with a 70' mast arm. (Note: 4 anchor bolts will be 13/4" x 90".) A. US 50 AND MD 707 900000 27' steel pole with twin 50'-50' mast arms. (Note: 4 2 Each 1. The intersection is to operate in a NEMA six-phase, fully-actuated mode. Contractor but not listed above are to become the anchor bolts will be 2" x 90".) with the US 50 approaches running concurrently. Exclusive left turn property of the Contractor. phases shall be provided for both approaches of US 50. The MD 707 approaches shall also run concurrently. Farside sampling will be provided 900000 27' steel pole with twin 50'-70' mast arms. (Note: 4 anchor bolts will be 2" x 90".) on both legs of US 50. 2. A full-traffic-actuated, eight-phase controller with tour DK four-channel, rack B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. mount loop detector amplifiers and associated harnesses housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection. CATEGORY QUANTITY DESCRIPTION CODE B. US 50 AND GOLF COURSE ROAD Mobilization Lump Sum 1. The intersection is to operate in a NEMA six-phase. fully-actuated mode. with the US 50 approaches running concurrently. An Exclusive double left Maintenance of traffic. turn phase shall be provided for the westbound approach of US 50 and an Exclusive single left turn phase shall be provided for the eastbound approach 120620 Temporary traffic sign. of US 50. The Golf Course Road approaches shall operate as a split phase. Farside sampling stations will be provided on both legs of US 50. Queing Flashing arrow panels. loops will be installed on eastbound US 50 east of the intersection and will be used to monitor queing traffic associated with the US 50 drawbridge. 9 C.Y. Test pit excavation. 2. A full-traffic-actuated, eight-phase controller with four the four-channel, rack Furnish and install preformed pavement marking tape. mount loop detector amplifiers and associated harnesses housed in a NEMA white (24" width for stoplines). size "6" base-mounted cabinet shall be installed at this intersection. Furnish and install permanent preformed pavement marking, letter. C. US 50 AND MO 611 585448 6 Each Furnish and install permanent preformed pavement marking, arrow. 1. The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the US 50 approaches running concurrently. An Exclusive double left 801004 Furnish and install concrete foundation. turn phase shall be provided for the westbound approach of US 50 and an Exclusive single left turn phase shall be provided for the eastbound approach Furnish and install ground rod. $\frac{3}{4}$ diameter x 10' length. 837001 of US 50. The MD 611 approaches shall operate as a split phase. 866201 Install steel pole with a single mast arm. 2. A full-traffic-actuated, eight-phase controller with four (4) four-channel, rack mount loop detector amplifiers and associated harnesses housed in a NEMA 866202 Install steel pole with twin mast arms. size "6" base-mounted cabinet shall be installed at this intersection. 34 Each Install one-way, three-section traffic signal head, mast III. SPECIAL NOTES 1. All field wiring to the existing controller cabinet shall be terminated to the Install one-way, four-section traffic signal head, mast appropriate controller cabinet connectors by the Contractor and labeled. arm mount. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in Install base-mounted cabinet and contoller. advance of intended work. 813015 450 S.F. Install overhead mounted sheet aluminum signs. EQUIPMENT LISTS 1 862102 3470 L.F. Furnish and install sawcut. A. EQUIPMENT TO BE SUPPLIED BY S.H.A. 1 805011 Furnish and install 1" galvanized steel electrical conduit CATEGORY (detector wire sleeve). CODE QUANTITY 140 L.F. Furnish and install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve). 8", one-way, three-section (R,Y,G) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors. 870116 572 L.F. Furnish and install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched). 12", one-way, three-section (R,Y,G) traffic signal head with adjustable bracket for mast arm mounting and tunnel visors. Furnish and install 3" polyvinyl chloride electrical conduit 960023 12 Each (Schedule 80) (trenched). 12", one-way, three-section (RA,YA,GA) (left arrows) traffic signal head with adjustable bracket for most arm mounting 1 805118 450 L.F. and tunnel visors. Furnish and install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored). 960027 4 Each 12", one-way, four-section (R.Y.G.GA) (left arrow) traffic 1 870122 Furnish and install 4" polyvinyl chloride electrical conduit signal with adjustable bracket for mast arm mounting and 846 L.F. (Schedule 80) (trenched prior to final road surface). 900000 4 Each Combination 8"-12", one-way, four-section (8"-R,Y,G) (12"-GA) 870122 Furnish and install 4" polyvinyl chloride electrical conduit (left arrow) traffic signal head with adjustable bracket for (Schedule 80) (trenched). mast arm mounting and tunnel visors. 838003 Furnish and install control and distribution equipment Type B-10. 1 971017 **3** Each Eight-phase, full-traffic-actuated, solid state digital controller with four (4) 4-channel, rack mount loop detector Furnish and install handhole (frame and cover). amplifiers and associated harnesses housed in a NEMA size "6" 832020 Furnish and install stranded bare copper ground wire (No. 6 base-mounted cabinet. Eight-phase, full-traffic-actuated, solid state digital 822002 7700 L.F. Furnish and install 12-pair, voice grade interconnect cable controller with five (5) 4-channel. rack mount loop detector (No. 19 A.W.G.) (jelly-filled). amplifiers and associated harnesses housed in a NEMA size "6" base-mounted cabinet. 15402 L.F. Furnish and install loop wire (No. 14 A.W.G.) encased in 973023 450 S.F. Overhead mounted sheet aluminum signs to consist of: 1/4" flexible tubing. 1**66**₹0 L.F. Furnish and install 2-conductor electrical cable (No. 14 A.W.G.) 2 Each D3-2 "Old Bridge Rd" dual-faced sign. (variable x 16") mast arm mounted. 861107 Furnish and install 5-conductor electrical cable (No. 14 A.W.G.). 4420 L.F. 2 Each D3-2 "Golf Course Rd" dual-faced sign. (variable x 16") mast arm mounted. Furnish and install 7-conductor electrical cable (No. 14 A.W.G.). 2 Each D3-2 "Stephen Decatur Rd" dual-faced sign. Furnish and install 2-conductor electrical cable (No. 12 A.W.G.) (variable x 16") mast arm mounted. type THHN tray cable. 6 Each D3-2 "Doean Gateway" dual-faced sign. 60 L.F. Furnish and install 3-wire electrical cable (No. 4 A.W.G.). (variable x 16") mast arm mounted. 861117 3 Each R3-6 "LEFT TURN AND THRU" sign. (30" x 36") mast 831010 6 Each Furnish and install 250W-HPS luminaire. arm mounted. Furnish and install 10' lighting arm. 3 Each R3-5R "RIGHT TURN ONLY" sign. (30" x 36") mast Furnish and install 15' lighting arm. arm mounted. 11 Each R3-5L "LEFT TURN ONLY" sign. (30" x 36") mast Remove and chip foundation 12" below grade. 800000 arm mounted. 800000 Remove and delivery of existing cabinet. 10 Each "Associated Shield Assembly" sign (48" x 75") pole mt. 800000 Removal and salvage of existing signal equipment. 6 Each "Associated Shield Assembly" sign (30" x 51") pole mt. 800000 Backguy existing poles for construction 973023 73 S.F. Ground mounted sheet aluminum signs to consist of: 805115 Furnish and install 3" polyvinyl choride electical 4 Each W3-3 NEW "SIGNAL AHEAD" sign. (48" x 48") ground conduit (Schedule 80) (bored). mounted with hardware. Furnish and install wood sign supports $(4'' \times 6'')$. 1 Each W3-3 NEW "SIGNAL AHEAD" sign. (36" x 36") ground mounted with hardware. Install ground mounted sheet aluminum signs. TASK578GI.DGN

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO: STATE HIGHWAY ADMINISTRATION, OFFICE OF TRAFFIC AND SAFETY, SIGNAL OPERATIONS WAREHOUSE, 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076, CONTACT MR. DAVID SCHWARTZ @ (410) 787-7667, FORTY-EIGHT (48) HOURS IN ADVANCE OF RETURNING EQUIPMENT.

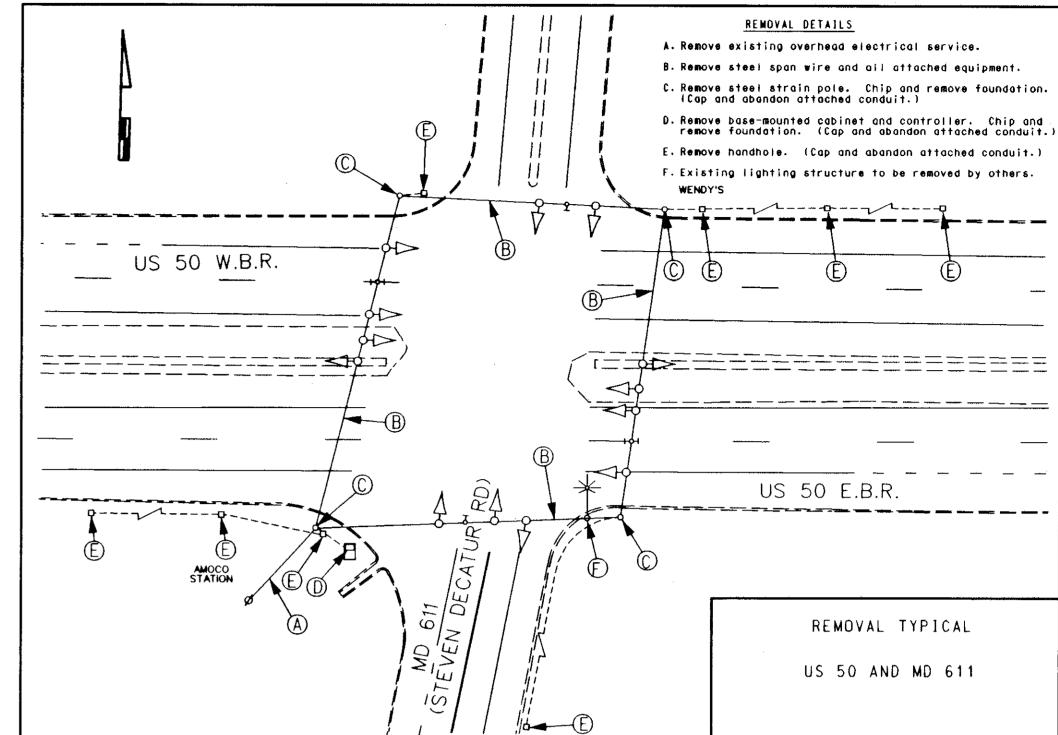
2 Each

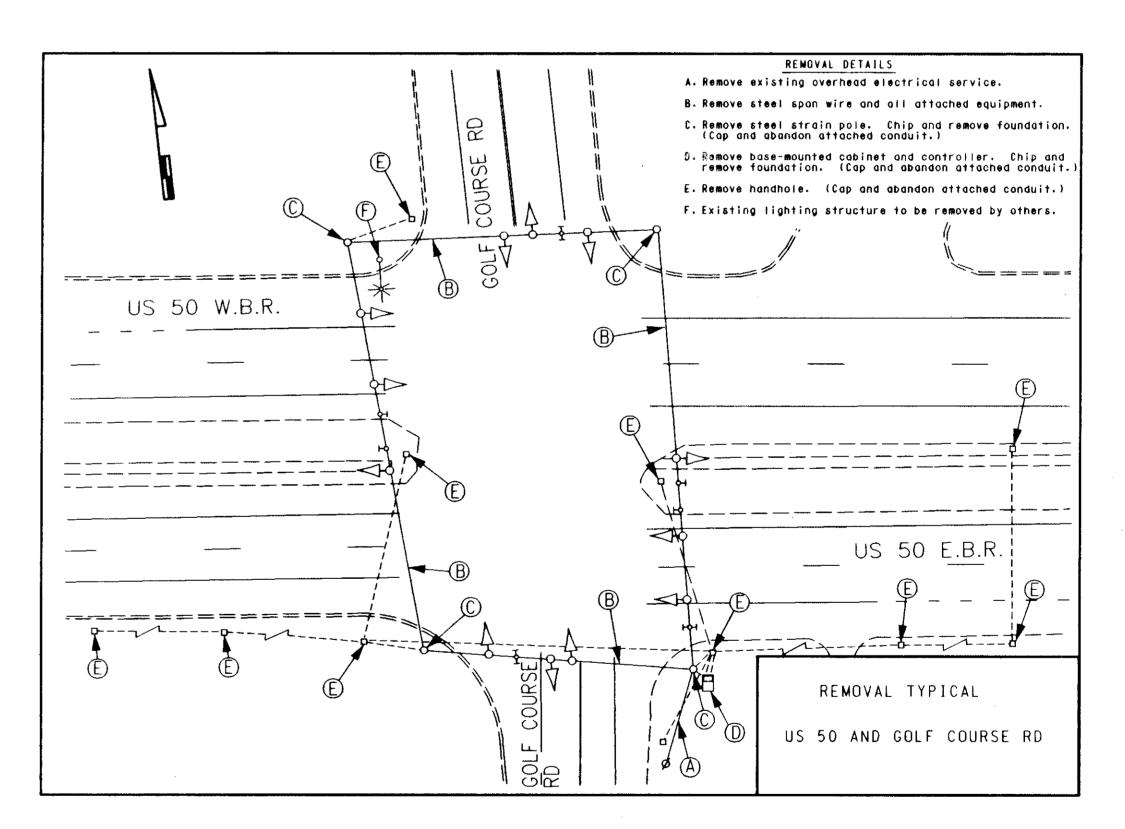
DESCRIPTION

8-phase controller and

base-mounted cabinet.

NOTE: All equipment and/or materials to be removed by the







Gateway International 1302 Concourse Drive, Suite 104 Linthicum, Maryland 21090 Ph (410) 859-3553 Fax (410) 859-3579

APPROVALS REVISIONS Loops & CONDUIT 3/99 AGST. CHIEF TEBO SECTION 45EX ABST. DISTRICT ENGNEER, TRAFFIC CHEF, TRAFFIC ENGINEERING BESIGN SMOKE

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION

US 50: MD 707 EAST TO SHANTYTOWN ROAD

_	DRAWN BY: THACKER	COUNTY: WORCESTER	TS NO.	CUEET NO
•	CHECK BY:	LOG MILE:		SHEET NO.
		F.A.P. NO	T.I.M.S. NO.	18 or 63
	SCALE: N/A	S.H.A. NO		